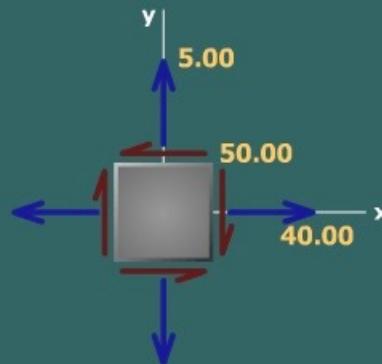


One of the Mohr's circles shown is correct for the state of stress depicted on the stress element. Click on the correct Mohr's circle.

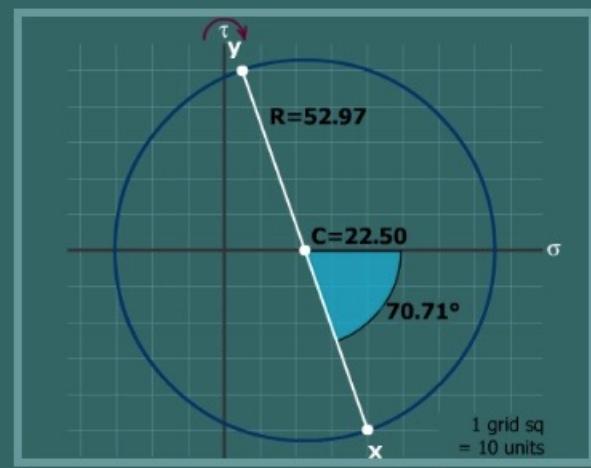
$$\sigma_{ave} = \frac{40 + 5}{2} = 22.5$$

$$x - axis = (\sigma_x, \tau_{xy}) = (40, -50)$$

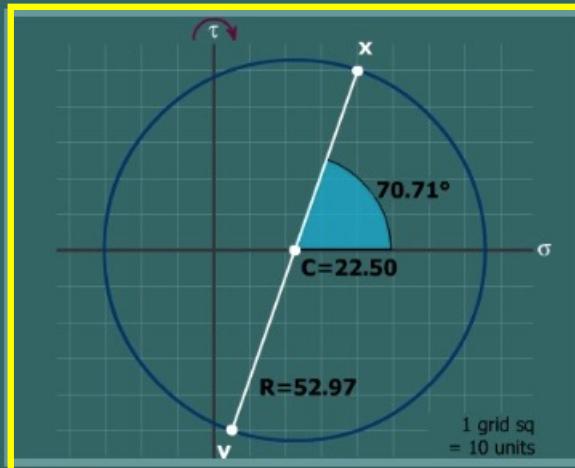
**Q1**



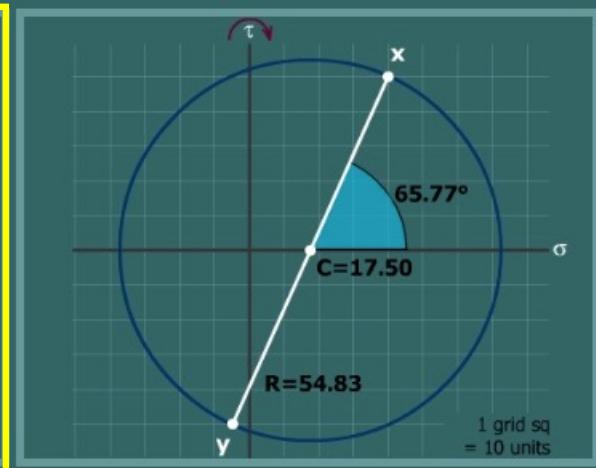
**Mohr's circle A**



**Mohr's circle B**



**Mohr's circle C**

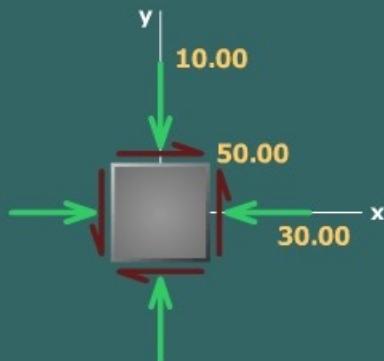


One of the Mohr's circles shown is correct for the state of stress depicted on the stress element. Click on the correct Mohr's circle.

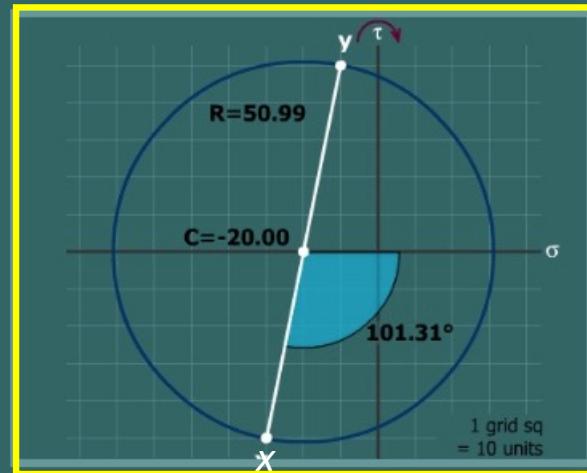
$$\sigma_{ave} = \frac{-30 - 10}{2} = -20$$

$$x - axis = (\sigma_x, \tau_{xy}) = (-30, 50)$$

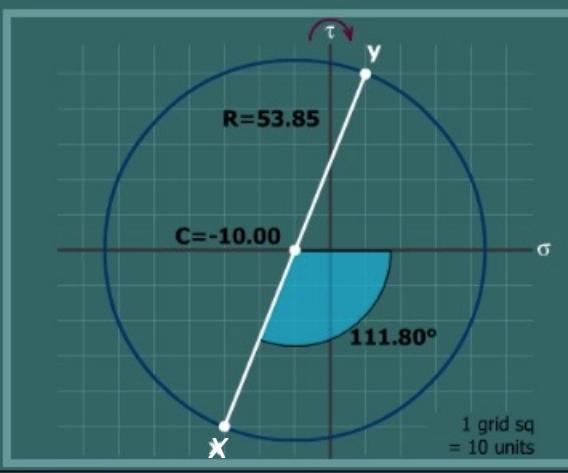
Q2



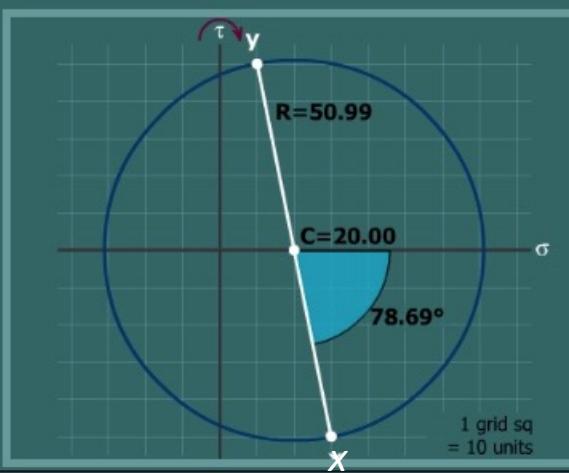
Mohr's circle A



Mohr's circle B



Mohr's circle C

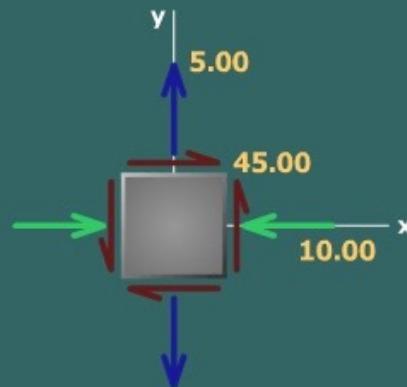


One of the Mohr's circles shown is correct for the state of stress depicted on the stress element. Click on the correct Mohr's circle.

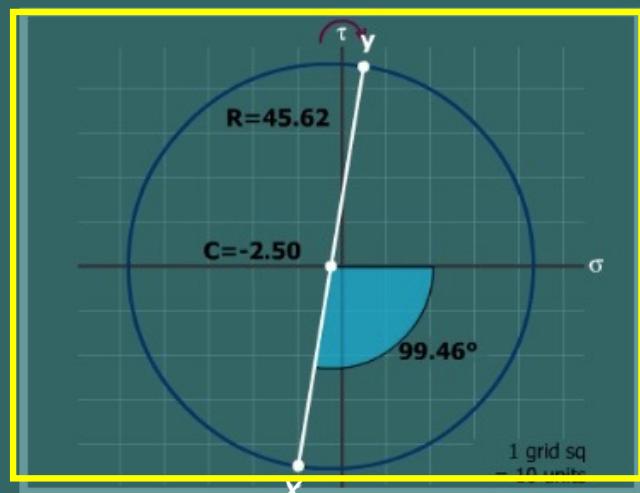
$$\sigma_{ave} = \frac{-10 + 5}{2} = -2.5$$

$$x - axis = (\sigma_x, \tau_{xy}) = (-10, 45)$$

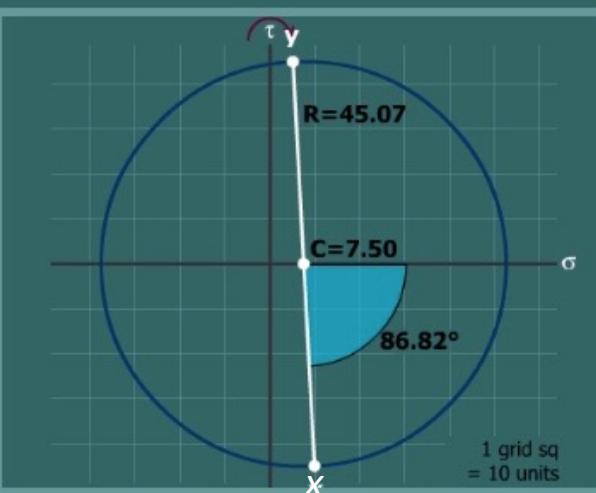
**Q3**



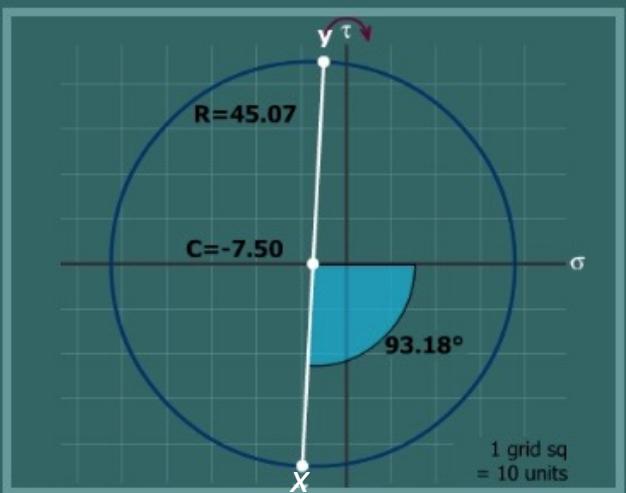
**Mohr's circle A**



**Mohr's circle B**



**Mohr's circle C**



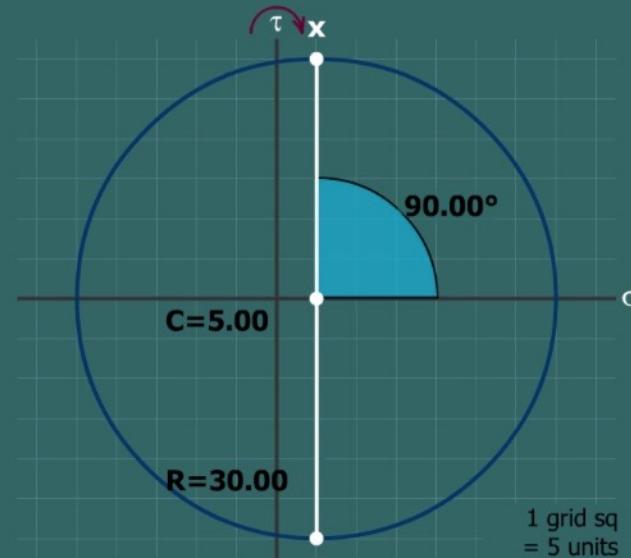
One of the stress elements shown is correct for this Mohr's circle. Click on the correct stress element.

A:  $\sigma_{ave} = \frac{-5-5}{2} = -5$   
 $x - axis = (\sigma_x, \tau_{xy}) = (-5, -30)$

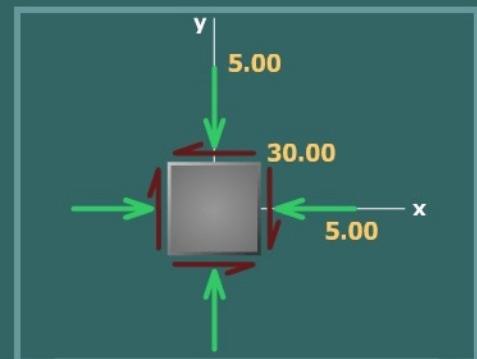
B:  $\sigma_{ave} = \frac{5+5}{2} = 5$   
 $x - axis = (\sigma_x, \tau_{xy}) = (5, -30)$

C:  $\sigma_{ave} = \frac{5-5}{2} = 0$   
 $x - axis = (\sigma_x, \tau_{xy}) = (5, -30)$

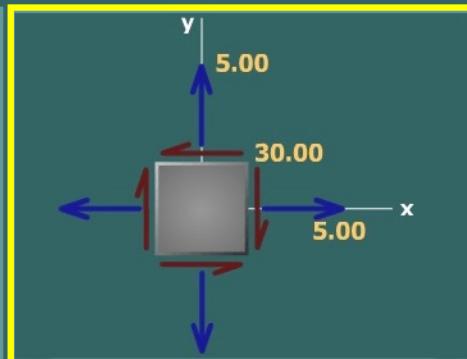
**Q4**



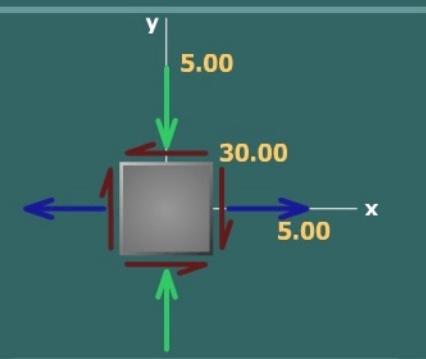
**Stress element A**



**Stress element B**



**Stress element C**

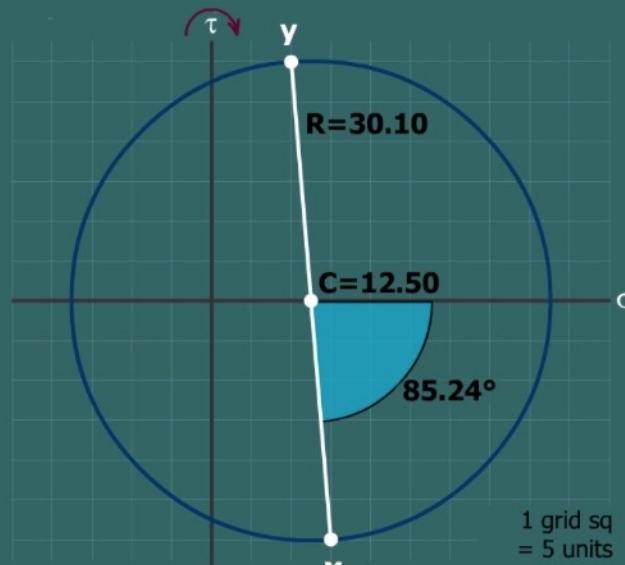


One of the stress elements shown is correct for this Mohr's circle. Click on the correct stress element.

A:  $\sigma_{ave} = \frac{15-10}{2} = -2.5$   
 $x - axis = (\sigma_x, \tau_{xy}) = (15, -30)$

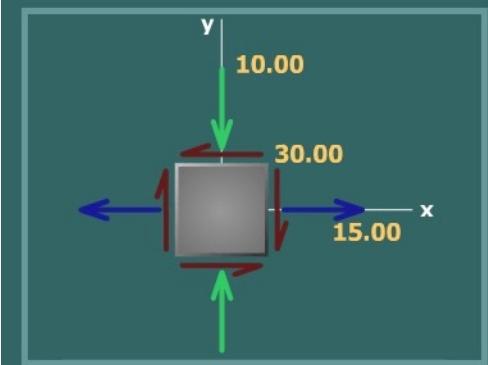
B:  $\sigma_{ave} = \frac{10+15}{2} = 12.5$   
 $x - axis = (\sigma_x, \tau_{xy}) = (10, 30)$

C:  $\sigma_{ave} = \frac{10+15}{2} = 12.5$   
 $x - axis = (\sigma_x, \tau_{xy}) = (15, 30)$

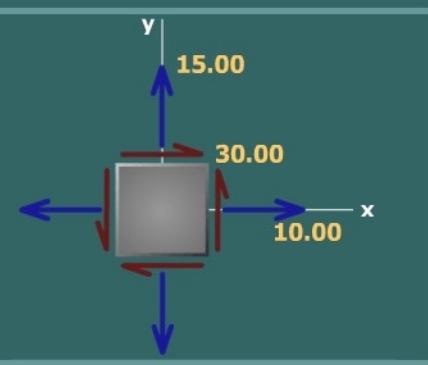


**Q5**

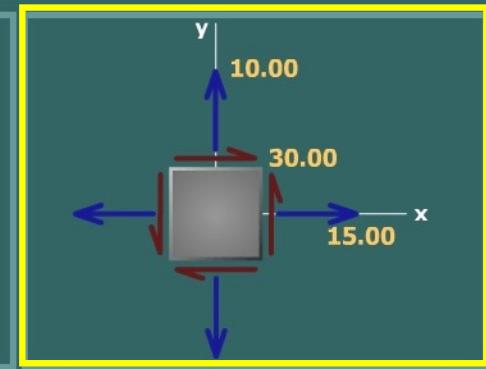
**Stress element A**



**Stress element B**



**Stress element C**

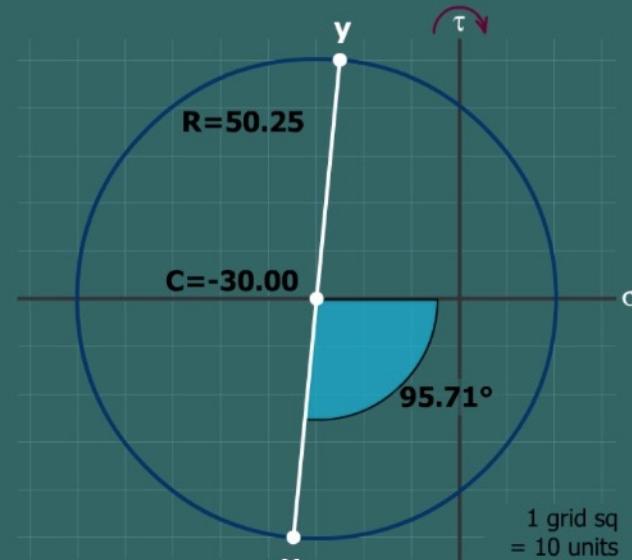


One of the stress elements shown is correct for this Mohr's circle. Click on the correct stress element.

A:  $\sigma_{ave} = \frac{25+35}{2} = 30$   
 $x - axis = (\sigma_x, \tau_{xy}) = (35, 50)$

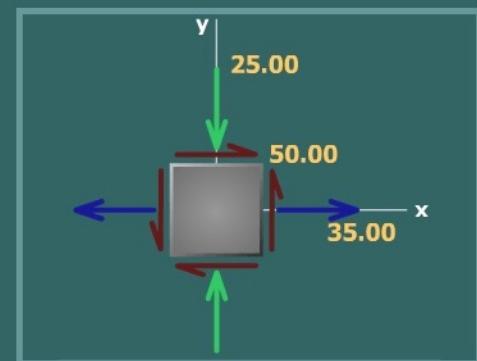
B:  $\sigma_{ave} = \frac{-25-5}{2} = -30$   
 $x - axis = (\sigma_x, \tau_{xy}) = (-25, 50)$

C:  $\sigma_{ave} = \frac{-35-25}{2} = -30$   
 $x - axis = (\sigma_x, \tau_{xy}) = (-35, 50)$

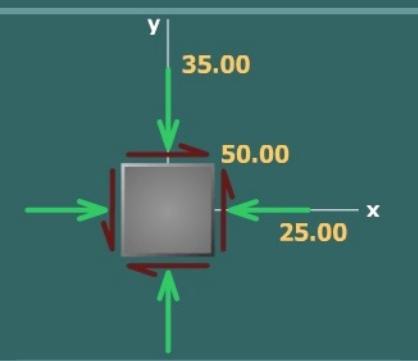


**Q6**

**Stress element A**



**Stress element B**



**Stress element C**

